GROWATT

WIT 4-15K-XHU

- Max. string current up to 20A
- Max. charging/discharging current up to 55A
- 100% unbalanced output: each phase up to 50% rated power
- 200% overload capability for 10 seconds
- Supports Max 10 pcs in parallel
- Integrated with generator input and smart load control



POWER-ING TOMORROW

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Datasheet	WIT 4K-XHU	WIT 5K-XHU	WIT 6K-XHU	WIT 8K-XHU	WIT 10K-XHU	WIT 12K-XHU	WIT 15K-XHU
Input data (PV)							
Max. recommended PV power (for module STC)	8000W	10000W	12000W	16000W	20000W	24000W	30000W
Max. input voltage	1000V						
Start voltage	180V						
Nominal voltage	625V						
MPPT working voltage range	150V-850V						
Max. input current per MPP tracker	40A			20A		40A+20A	
Max. short-circuit current per MPP tracker	50A			25A		50A+25A	
No. of MPP trackers	1			2			
No. of PV strings per MPP tracker	2			1		2+1	
Input/Output AC (Including the Gen Port)							
AC input/output nominal power(Grid)	8000W/4000W	10000W/5000W	12000W/6000W	16000W/8000W	20000W/10000W	24000W/12000W	30000W/15000W
Max. AC input/output apparent power(Grid)	8800VA/4400VA	11000VA/5500VA	13200VA/6600VA	17600VA/8800VA	22000VA/11000VA	26400VA/13200VA	33000VA/16500VA
Max. input/output current(Grid)	13.33A/6.66A	16.66A/8.3A	20A/10A	26.67A/13.33A	33.33A/16.67A	40A/20A	50A/25A
Max. input current(GEN/AC couple)	12.12A/6.06A	15.15A/ 7.57A	18.18A/9.09A	24.24A/12.12A	30.30A/15.15A	36.36A/18.18A	45.45A/22.77A
Nominal AC voltage/range	220V/380V, 230V/400V, 240V/415V, -15%~+10%						
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55-65 Hz						
Adjustable power factor	-1…+1						
THDi	<3%						
AC grid connection type	3P3W+PE/3P4W+PE						
Battery data (DC)							
Battery type	Lithium-ion						
Battery voltage range	120-800V						
Max charging and discharging current	55A						
Recommended battery voltage	512V						
BMS communication	RS485/CAN						
Backup power (AC)*							
Rated AC output power	4000W	5000W	6000W	8000W	10000W	12000W	15000W
Max. AC apparent power	2 times of rated power, 10s						
Rated AC output voltage	220V/380V, 230V/400V, 240V/415V						
Nominal AC output frequency	50/60Hz						
Max. output current	12.12A	15.15A	18.18A	24.24A	30.30A	36.36A	45.45A
THDv	3% (Linear load)						
Load unbalance	100% three-phase unbalanced						
On/off grid transfer time	< 10ms						
Efficiency							
Max. efficiency	98.10%						
European efficiency	97.20%						
MPPT efficiency	99.90%						
Protection devices							
PV reverse polarity protection	Yes						
DC switch	Yes						
DC/AC surge protection	Type II / Type III						
Insulation resistance monitoring	Yes						
Residual-current monitoring unit	Yes						
AC short-circuit protection	Yes						
Ground fault monitoring	Yes						
Grid monitoring	Yes						
Strings monitoring	Yes						
Anti-islanding protection	Yes						
AFCI function	Opt						
General							
Dimensions (W / H / D)	445x630x234mm						
Weight	43kg						
Operating temperature range	-30°C ... +60°C (> 45°C, derating)						
Noise	≤50dB(A)						
Relative humidity	0~100%						
Altitude	4000m						
Topology	Transformerless						
Cooling	Smart air cooling						
IP degree	IP66						
Display	OLED/LED+APP						
Interfaces: RS485/USB	Yes						
Interfaces: WIFI/LAN	Yes						
Warranty (5/10 years)	Yes/Opt						
IEC62109, IEC 61000, IEC 61727, IEC 61683, IEC 60068, EC 62116, EN 50549, VDE 4105							

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